

Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
USPTO Use Only

EFS ID: 11703  
Application ID: 09681891  
Title of Invention: THICK FILM HEATER  
INTEGRATED WITH LOW  
TEMPERATURE COMPONENTS  
AND METHOD OF MAKING THE  
SAME  
First Named Inventor: Hongy Lin  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2001-06-21  
Submission Type: Utility Patent Filing  
Filing Type: new-utility  
Confirmation Number: 0  
Attorney Docket Number: 13558-51  
Digital Certificate Holder: cn=Matthew A. Rosenberg, ou=Registered Attorneys, ou=Patent  
and Trademark Office, ou=Department of Commerce, o=U.S.  
Government, c=US  
Certificate Message Digest: bXkuOu8NGJJlz8oDApIKVw==  
Total Fees Authorized: \$858.0  
Payment Category: DA - Deposit Account  
Deposit Account Number: 501572  
Deposit Account Name: Matthew A. Rosenberg



# TRANSMITTAL FORM



Electronic Version 1.0.2

Stylesheet Version: 1.0

Attorney Docket Number: 13558-51

## THICK FILM HEATER INTEGRATED WITH LOW TEMPERATURE COMPONENTS AND METHOD OF MAKING THE SAME

First Named Inventor: Hongy Lin

### SUBMITTED BY

Name: Matthew A. Rosenberg Esq.  
Registration Number: 40,149  
Electronic Signature  
Mark: /matthew a rosenberg/

Date Signed: 20010621

*I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.*

*I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

### Attached Files:

specification	lowtemp.xml
bibd-transmittal	13558-51apds.xml

declaration	lowtemp-dec1.tif
declaration	lowtemp-dec2.tif
declaration	lowtemp-ass1.tif
declaration	lowtemp-ass2.tif
declaration	lowtemp-ass3.tif
declaration	lowtemp-dec3.tif
fee-transmittal	13558-51 fee.xml
patent-assignment	13558-51 asgn.xml

**Attached Image File(s):**

lowtemp-dec1.tif  
lowtemp-dec2.tif  
lowtemp-ass1.tif  
lowtemp-ass2.tif  
lowtemp-ass3.tif  
lowtemp-dec3.tif

13558-51 fee.xml

**Comments:**

Group	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

030301-1001-0000

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## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

As the below named inventor(s), I/we declare that:

This declaration is directed to:

- ☒ The attached application, or  
☐ Application No. \_\_\_\_\_, filed on \_\_\_\_\_,  
☐ as amended on \_\_\_\_\_ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application, if applicable; and

All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and will jeopardize the validity of the application or any patent issuing thereon.

### FULL NAME OF INVENTOR(S)

Inventor one: Hongy Lin

Signature: 

Citizen of: United States

Inventor two: Thomas M. Laskowski

Signature: 

Citizen of: United States

Inventor three: Louis P. Steinhauser

Signature: 

Citizen of: United States

Inventor four: \_\_\_\_\_

Signature: \_\_\_\_\_

Citizen of: \_\_\_\_\_

☐ Additional inventors are being named on \_\_\_\_\_ additional form(s) attached hereto.

**Burden Hour Statement:** This collection of information is required by 35 U.S.C. 115 and 37 C.F.R. 1.63. The information is used by the public to file (and to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 C.F.R. 1.14. This form is estimated to take 1 minute to complete. This time is depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS  
TO: Assistant Commissioner for Patents, Washington, DC 20231.

CERTIFICATE UNDER 37 CFR 3.73(b)

Applicant: Hongy Lin et al.

Application No.: \_\_\_\_\_ Filed: herewith

Entitled: THICK FILM HEATER WITH INTEGRATED LOW TEMPERATURE COMPONENTS AND METHOD OF MAKING THE SAME

Watlow Electric Manufacturing Company, a Missouri corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government ager

certifies that it is:

1. ☒ the assignee of the entire right, title, and interest-, or
2. ☐ an assignee of an undivided part interest

in the patent application identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[ ] Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

6/18/2001  
Date

Louis P. Steinhauser  
Signature

Louis P. Steinhauser

Typed or printed name

Director of Corporate R & D

Title

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**ASSIGNMENT OF APPLICATION**

Docket Number (Optional)

13558-51

Whereas, I/We, Louis P. Steinhauer of St. Louis, MO, hereafter referred to as applicant, have invented certain new and useful improvements in THICK FILM HEATER INTEGRATED WITH LOW TEMPERATURE COMPONENTS AND METHOD OF MAKING THE SAME

☐ for which an application for a United States Patent was filed on \_\_\_\_\_  
Application Number \_\_\_\_\_/\_\_\_\_\_

☒ for which an application for a United States Patent was executed on 6/18/01 and

Whereas, Watlow Electric Manufacturing Co. of St. Louis, Missouri herein referred to "assignee" whose mailing address is 12001 Lackland is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of ten dollars (\$10.00), the receipt whereof acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I/We hereby authorize and request the Commissioner of Patent and Trademarks to issue a United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had the assignment and sale not been made.

Executed this 18<sup>th</sup> day of June, 2001  
at St. Louis, Missouri

State of Missouri )

County of St. Louis )

SS:

Before me personally appeared said Louis P. Steinhauer

and acknowledged the foregoing instrument to be his free act and deed this 18<sup>th</sup>

day of June, 2001

Seal

**GAYNELL HEATH**  
Notary Public - Notary Seal  
STATE OF MISSOURI

Jefferson County

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below.

☒ Total of 3 forms are submitted.

Burden Hour Statement: This form is estimated to take 0.1 hours to complete. Time will vary depending upon the needs of the individual case. Any comment the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner of Patents and Trademarks, Washington, 20231.

Please type a plus sign (+) inside this box-> ☐

PTO/SB/81 (11-96)

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**POWER OF ATTORNEY OR  
AUTHORIZATION OF AGENT,  
NOT ACCOMPANYING  
APPLICATION**

Application Number	unknown
Filing Date	herewith
First Named Inventor	Hongy Lin et al.
Group Art Unit	unknown
Examiner Name	unknown
Attorney Docket Number	13558-51

I hereby appoint:

☒ Practitioners at Customer Number

25,716

OR

☐ Practitioner(s) named below:

Customer Number Bar Code Label

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please change the correspondence address for the above- identified application to:

☐ The above-mentioned Customer Number.

OR

☐ Firm or  
Individual Name

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City

State

ZIP

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Telephone

Fax

I am the:

☐ Applicant.

☒ Assignee of record of the entire interest  
Certificate under 37 CFR 3.73(b) is enclosed

**SIGNATURE of Applicant or Assignee of Record**

Name	Louis P. Steinhauser
Signature	<i>Louis P. Steinhauser</i>
Date	6/18/2001

**Burden Hour Statement:** This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patent and Trademark, Washington, DC 20231.

# FEE TRANSMITTAL

Electronic Version 1.0.4

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

Large Entity

**TOTAL FEES AUTHORIZED: \$ 858**

The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:

Deposit Account Number: 501572

Deposit Account Name: Blumenfeld, Kaplan & Sandweiss, P.C.

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

## SUBMITTED BY

Authorized Name: Matthew A. Rosenberg

Electronic Signature Mark: /matthew a rosenberg/

Date Signed: 20010621

## BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	101	\$ 710

Subtotal For Basic Filing Fee: \$ 710

## EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 26	103	\$ 18	6	\$ 108
Independent Claims: 2	102	\$ 80	0	\$ 0

Subtotal For Extra Claims Fees: \$ 108

**ADDITIONAL FEES**

Fee Description	Fee Code	Fee Paid
Recording Each Patent Assignment Per Property Fee	581	\$ 40

Subtotal For Additional Fees: \$ 40

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